

(18)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07069604 A**

(43) Date of publication of application: **14.03.95**

(51) Int. Cl

**C01B 15/029**

(21) Application number: **05217439**

(22) Date of filing: **01.09.93**

(71) Applicant: **MITSUBISHI GAS CHEM CO INC**

(72) Inventor: **NAGASHIMA HIROMITSU  
TOMITA TAKESHI  
ISHIUCHI MASAO  
KAWAKAMI MICHIA**

**(54) PRODUCTION OF HYDROGEN PEROXIDE**

**(57) Abstract:**

**PURPOSE:** To obtain highly concd. H<sub>2</sub>O<sub>2</sub> with high hydrogen selectivity without incorporating halogen ion into a reaction medium by allowing O<sub>2</sub> to react catalytically with H<sub>2</sub> with a modified platinum-group metal catalyst on which Zr and/or Al and a platinum-group metal are simultaneously deposited.

**CONSTITUTION:** Zr and/or Al and a platinum-group metal

are simultaneously deposited on a carrier (aluminum oxide, silicon oxide, zirconium oxide, etc.) to prepare a modified platinum-group metal catalyst. O<sub>2</sub> is allowed to react catalytically with H<sub>2</sub> in a reaction medium by using the catalyst to obtain H<sub>2</sub>O<sub>2</sub>. The medium is formed with an aq. acidic soln. free of halogen ion and contg. an H<sub>2</sub>O<sub>2</sub> stabilizer such as aminotri(methylenephosphonic acid) and pyrophosphoric acid.

**COPYRIGHT: (C)1995,JPO**